

Title (en)

Rotorblade for a bearingless helicopter rotor

Title (de)

Rotorblatt für einen lagerlosen Rotor eines Hubschraubers

Title (fr)

Pale pour rotor d'hélicoptère du type sans roulements

Publication

EP 0980824 B1 20070110 (DE)

Application

EP 99111384 A 19990611

Priority

DE 19837802 A 19980820

Abstract (en)

[origin: DE19837802C1] The blades are attached to the hub by flexures instead of the usual hinges. The rotor mast or drive shaft (4) has a flange (3) at the top, forming the rotor head. A flexible rotor head plate (2) is bolted (V2) to the rigid rotor head. It is of cruciform shape, with the inner ends of the rotor blades (5) bolted (V1) to the ends - for a four-bladed rotor. The inner ends of the rotor blades fit over the ends (2.1,2.3) of the flexible rotor head plate (2). A flexible spider plate (1) with four arms (1.1,1.3) is fitted over the inner ends of the rotor blades, and is held by the bolts which fasten the blades to the flexible rotor head plate. The center of the cruciform spider plate is thicker than the arms.

IPC 8 full level

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CPC (source: EP)

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Cited by

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